

FELINE CD80, FELINE CD86, FELINE CD28, AND FELINE CTLA-4 NUCLEIC ACID AND POLYPEPTIDES

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ABSTRACT OF THE DISCLOSURE

10 The present invention provides isolated and purified DNA
encoding feline CD80 (B7-1) ligand, feline CD86 (B7-2)
ligand, feline CD28 receptor, or feline CTLA-4 (CD152)
receptor, as well as vectors comprising nucleic acid
encoding feline CD80, feline CD86, feline CD28, or feline
15 CTLA-4. The present invention provides a host cells
transformed with CD80-encoding vectors, CD86-encoding
vectors, CD28-encoding vectors, or CTLA-4-encoding vectors.
The invention provides polypeptides encoded by the nucleic
acid of feline CD80, feline CD86, feline CD28, or feline
CTLA-4.

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The present invention provides a vaccine comprising an
effective amount of polypeptides encoded by the nucleic
acid of feline CD80, feline CD86, feline CD28, or feline
CTLA-4. The present invention also provides vaccines which
25 further comprise immunogens derived from pathogens. The
invention provides for vaccines capable of enhancing an
immune response. The invention also provides for vaccines
capable of suppressing and immune response.

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